

1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/688,286D

DATE: 07/15/2003 TIME: 07:51:52

Imput Set : A:\11373A.seqlist.txt

Output Set: N:\CRF4\07152003\1688286D.raw

See page 6

```
3 <110> APPLICANT: Willson, Tracey
                 Minela , Nices
                 Hilton, Douglas
                Metcali, Donald
                Zhang , Jian
       9 <12 > TITLE OF INVENTION: A novel haemopoietin receptor and genetic sequences encoding
 Same
      11 <1300 FILE REFERENCE: 23199-215
      13 <140 - CURRENT APPLICATION NUMBER: US 09/688,286P
C--> 14 <141> CURRENT FILING DATE: 2003-07-10
      16 :15). PRIOR APPLICATION NUMBER: AU PN6135
17 <150: PRIOR FILING DATE: 1995-10-23
      19 <1500 PRIOR APPLICATION NUMBER: AU PN7276
      20 <151: PRICE FILING DATE: 1995-12-22
      22 <15 : PFIOR APPLICATION NUMBER: AU PP2208
      23 <1511 PRIOR FILING DATE: 1996-09-09
      28 416: NUMBER OF SEQ ID NOS: 12
      27 <170: SOFTWARE: PatentIn version 3.1
      29 <210 SEQ ID NO: 1
     30 <211: LENGTH: 1680
31 <21:: TYPE: DNA
     32 <2130 ORGANISM: Mus musculus
      34 K22UP FEATURE:
      HE HASSE STAME BEYENDS
     10 - 2. 2. 188 Will dis (101, ..., 1887)
     STORES OTHER INFORMATION:
W--> 39 <400> 1
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     dù atgugeg mad eeu dag eng etg gge dad etg tig gha haa ets end ida.
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file: C: CRF4 Outhold VsrI688286D.htm

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/688,286D

PATE: (77/11/24 -- TIME: 07:51:57

Input that : A:\11373A.seqlist.txt

Output Set: N:\CRF4\07152003\1688286D.raw

63 64	His	Arg	Lys	Glu	G1 u 85	Leu	Fro	Leu	Asp	31u 90	Lys	He	Cys	Leu	Gln 95	Val	
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71	Lys	Lys	Cys	Il⊕	Ser	Pro	Ero	:31 u	Gly	Asp	$\operatorname{Pr} \oplus$	Glu	S-r	Alla	Val	Thr	
7.	-	•	115					120					15				
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1:					2.43					250					25.		
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::	5. GJ	u Ġĺ	y Thi	: Sei	Cys	· Pr.	v (42)	n Len	ı Fre	o Gly	y Val	Lest	i Ala	i Zid	: Al.	u Val	
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RAW SEQUENCE LISTING
FATENT AFFICATION: US/09/688,286D

PATE: 07/15/2003
TIME: 07/15/2003

Input Set : A:\11373A.seqlist.txt

Output Set: N:\CRF4\07152003\1688286D.raw

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1.1	Val	Ala	Val	Ala	Val	Ile	Ile	Leu	Leu	Phe	Tyr	Leu	Lys	Arg	Leu	Lys	
130	V (1 1	/11 G	355					360					365				
1.3.5	atic	att	ata	tit	cct	cca	att	aat	gat	act	ggc	aag	att	ttt	aaa	gaa	1212
1 - 5	The	11e	Ile	Phe	Pro	Pro	11.0	Pro	Ásp	Pro	ĜΪy	Lys	Ιlе	Phe	Lys	Glu	
1		370					375					380					
7	a t.cr	1++	ada	da 3	740	aat	gat	gat	acc	otg	card	t.gg	aag	aag	t.at	gad	1260
1	Met	Phe	δīν.	Ásp	Gla	Asn	Asp	Asp	Thr	Leu	Н1.3	Trp	Lys	Lys	Tyr	Asp	
3.331	335					390					395					400	
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143	He	Tyr	Glu	1793	Gln	Ser	Lys	614	Glu	Thr	Asp	Ser	Val	Val	Leu	116	
1.4.4					405					410					4.15		1000
146	j.a.a	aac	otg	aag	aaa	gca	get	CCT	t.gat	gggg	jag a	agto	gattt	e tt	tott	Lacet	1362
1.1	Slu	Asn	1.00	Lya	Lys	Ala	Ala	Pro									
1 4:				420												+	142.3
1.5	0.038	atgu	gac c	patigt	igaaç	ga ti	tatt	igoat	t tat	iccat	tig.	ttat	cug	ggg 9	iact (gttaa	1482
15.	atag	gaaac	atg a	a a a crit	Lacto	ot to	gaaaa	aacag	g gca	ageto	ाव ् के	agaq	gedad	sag g	gi, c'i l	.gatgt	1542
154	J alot	tttt	gca :	. †. (J ÷ č	àdaC0	od aa	DOORE	Cialaia (g gag	gatac	ette.	caaq	gaaaa	ago e	iayay ot sa	gttott	1602
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16	<:21:	2> T	YPE:	PKT	11	******	au 1 111	-									
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15.55	-:4171	U2 5.	EQUE	NULL	• •												
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3 / 3	1	Ala	Arg	51.0		Leu	Leu	Gly	Glu	Leu 10	Leu	Val	Leu	Leu	Leu 15	Trp	
57.	1			51.0	:,					10					15		
17.	Thr			Pro Val	:,				Ala	10				Leu Gln 30	15		
174 175	Thr	Ala	Thr	Pro Val	5 G1 y	Gln	Val	Ala	Ala 25	10 Ala	Thr	Glu	Val	Gln 30	15 Pro	Pro	
174 175 178	Thr Val	Ala	Thr Asn	Pro Val	5 G1 y	Gln Val	Val Ser	Ala Val	Ala 25 Glu	10 Ala Asn	Thr	Glu Cys	Val Thr	Gln 30 Ile	Pro	Pro Trp	
176 175 178 179	Thr Val	Ala Thr	Thr Asn	Pro Val 20 Leu	5 Gly Ser	Gln Val	Val Ser	Ala Val	Ala 25 Glu	10 Ala Asn	Thr	Glu Cys	Val Thr	Gln 30 Ile	Pro	Pro Trp	
174 175 178 179 179	Thr Val The	Ala Thr	Thr Asn 35	Pro Val 20 Leu	5 Gly Ser	Gln Val	Val Ser	Ala Val 40 Ala	Ala 25 Glu	10 Ala Asn	Thr Lou A.H.	Glu Cys	Val Thr 45	GIn 30 Ile	Pro	Pro Trp	
174 175 178 179 179	Thr Val The	Ala Thr	Thr Asn 35	Pro Val 20 Leu	5 Gly Ser	Gln Val	Val Ser	Ala Val 40 Ala	Ala 25 Glu	10 Ala Asn	Thr Lou A.H.	Glu Cys	Val Thr 45	GIn 30 Ile	Pro Tle	Pro Trp Typ The	
174 175 178 179 183 183	Thr Val The	Ala Thr Thr	Thr Asn 35	Pro Val 20 Leu i:	5 Gly Ser H:	Gln Val Him Ang	Val Ser Sily US	Ala Val 40 Ala	Ala 25 Glu Ant	Asn Hi	Thr Lou Act.	Glu Cys Tys GC Tie	Val Thr 45 Th:	GIn 30 Ile	Pro	Pro Trp Typ The	
174 175 178 179 183 183	Thr Val The	Ala Thr Thr	Thr Asn 35	Pro Val 20 Leu i:	5 Gly Ser H:	Gln Val Him Ang	Val Ser Sily US	Ala Val 40 Ala	Ala 25 Glu Ant	Asn Hi	Thr Lou Act.	Glu Cys Tys GC Tie	Val Thr 45 Th:	GIn 30 Ile	Pro The And	Pro Trp Typ The	
176 176 178 179 186 186 187	Thr Val The ob His	Ala Thr Thr in And	Thr Asn 35 35 117 Hill	Pro Val 20 Leu iii iii	5 Gly Ser H: Add	Gln Val did Ada 70 Leu	Val Ser Mig Mi His	Ala Val 40 Ala 400	Ala 25 Glu Wei Asp	Asn Hittigar Giu 90	Thr Lou Act. Lyr Lys	Glu Cys Sys Ed Tile	Val Thr 45 Thr Cys	GIn 30 Ile 100 Hi	Pro The And And The Gin 95	Pro Trp Typ Trp Unit Unit Val	
176 176 178 179 186 186 187	Thr Val The ob His	Ala Thr Thr in And	Thr Asn 35 35 117 Hill	Pro Val 20 Leu iii iii	5 Gly Ser H: Add	Gln Val did Ada 70 Leu	Val Ser Mig Mi His	Ala Val 40 Ala 400	Ala 25 Glu Wei Asp Ser	Asn Hi Giu 90 Glu	Thr Lou Act. Lyr Lys	Glu Cys Sys Ed Tile	Val Thr 45 Thr Cys	GIn 30 Tie 100 Hou Pro	Pro The And And The Gin 95	Pro Trp Typ Trp Unit Unit Val	
174 175 178 179 183 187 187 194 194 194	Thr Val The She ob His Gly	Ala Thr Thr the Angles	Thr Asn 35 36 10: Hid Lys Gin	Pro Val 20 Leu i: Cys 100	Ser H: Act Glu 85 Ser	Gln Val The And Yo Leu Ala	Val Ser High His His Asp	Ala Val 40 Ala ini ind	Ala 25 Glu Jer Asp Asp	Asn Hydrodiu Giu 90 Glu	Thr Lou Act. Twr Tyl Lys Lys	Glu Cys -Tys ed -Tie Tie Pro	Val Thr 45 Thr Cys Ser	GIn 30 Tie 1955 Hen Pro 116	Pro The Arti Gin 95 Leu	Pro Trp Typ Tre t	
174 175 178 179 183 187 187 194 194 194	Thr Val The She ob His Gly	Ala Thr Thr the Angles	Thr Asn 35 36 10: Hid Lys Gin	Pro Val 20 Leu i: Cys 100	Ser H: Act Glu 85 Ser	Gln Val The And Yo Leu Ala	Val Ser High His His Asp	Ala Val 40 Ala ini ind	Ala 25 Glu Jer Asp Asp	Asn Hydrodiu Giu 90 Glu	Thr Lou Act. Twr Tyl Lys Lys	Glu Cys -Tys ed -Tie Tie Pro	Val Thr 45 Thr Cys Ser	GIn 30 Tie 100 Hr	Pro The Arti Gin 95 Leu	Pro Trp Typ Tre t	
174 175 178 179 180 180 187 189 189 199 199	Thr Val The Gb Hir Gly Lyr	Ala Thr Thr And Ser Lys	Thr Asn 35 35 117 HIV Lys Gln Cyn	Pro Val 20 Leu ii Cys 100 110	Ser Final Action Ser Ser Ser	Gln Val Val Add Val Add Add Add Add Add Add Add Add Add A	Val Ser High His His Asp	Ala Val 40 Ala 4.5 Led Glu Glu	Ala 25 Glu Wei Asp Ser 105 Oly	Asn Hi Giu 90 Glu Asq	Thr Lou Act. Lyr bys Lys Lin	Glu Cys Tys ed Tile Tile Pro	Val Thr 45 The Cys Ser Der	GIn 30 The 185 Heu Pro 116 Ali	Pro The Art Gin 95 Leu Val	Pro Trp Typ Tre t	
174 175 178 179 180 180 187 189 189 199 199	Thr Val The Gb Hir Gly Lyr	Ala Thr Thr And Ser Lys	Thr Asn 35 35 117 HIV Lys Gln Cyn	Pro Val 20 Leu ii Cys 100 110	Ser Final Action Ser Ser Ser	Gln Val Val Add Val Add Add Add Add Add Add Add Add Add A	Val Ser High His His Asp	Ala Val 40 Ala 4.5 Led Glu Glu	Ala 25 Glu 743 Asp Ser 105 Oly	Asn Hi Giu 90 Glu Asq	Thr Lou Act. Lyr bys Lys Lin	Glu Cys Tys ed Tile Tile Pro	Val Thr 45 The Cys Ser Der	GIn 30 Tie 1955 Hen Pro 116	Pro The Art Gin 95 Leu Val	Pro Trp Typ Tre t	

DATE: TEXTER. 1 -5

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TIME: 07:51:52
                                           FATENT APPLICATION: US/09/688,286D
                                            Imput Net : A:\11373A.seqlist.txt
                                           Output Set: N:\CRF4\07152003\1688286D.raw
        214 Glu Sly Sin His lie Ala Cys Ser Phe Lys Leu Thr Lys Val Glu Pro
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        .:15
                                            180
        21% Ser Phe Glu His Gln Asn Val Gln Ile Met Val Lys Asp Asn Ala Gly
                                                                                                                            205
                                                                               200
                                   195
        .119
        Hill Lys lie Arg Pro Ser Cys Lys lie Val Ser Leu Thr Ser Tyr Val Lys
                                                                                                                    220
                                                                      215
        ...3 210
        1006 Pro Asp Pro Pro Bis Ile Lys His Leu Leu Leu Lys Asr. Gly Ala Leu
                                                                                                          235
                                                             2.50
        .c. Leu Mal Glm Trp Lys Ash Pro Glm Ash Phe Arg Ser Arg Cys Leu Thr
                                                                                                                                             2.55
                                                                                                 250
                                                     245
        . 24 Twr Glu Val Glu Val Ash Ash Thr Gln Thr Ash Ash Ash He beu
                                                                                                                                     270
                                                                                         265
         . . . . .
                                            260
        ing Glu Val Glu Glu Asp Lys Cys Gln Asn Ser Glu Ser Asp Arg Asn Met
                                                                                                                             26.5
                                                                               286
                                   275
         .4. Glu Gly Thr Sor Cys Phe Gin Leu Pro Gly Val Leu Ala Asp Ala Val
                                                                       295
                                                                                                                    3.40
                 .:90
         .40 Tyr Thr Val Arg Val Arg Val Lys Thr Asr. Lys Leu Cys Phe Asp Asp
                                                                                                            315
         . 47 305
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         . !! Ash bys Leu Trp Ser Asp Trp Ser Glu Als Gln Ser Ile Gly Lys Glu
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                                                      3.25
         .14 Glm Ash Ser Thr Phe Tyr Thr Thr Met Leu Leu Thr Ile Pro Val Phe
                                                                                                                                      350
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         .ib Val Ala Val A a Val Ile ile Leu Leu Phe Tyr Leu Lys Ard Leu Lys
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                                    3.55
         . () The lie Tie Phe Bro Pro Ile Pro Asp Pro Gly Lys Ilc Phe Lys Glu
                                                                                                                     380
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                            .76
          . 1.3
          .co Met Phe Gly Asp Gun Asn Asp Asp Thr Let His Trp Lys Lys Tyr Asp
                                                                                                          395
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                                                               390
          ..67 385
         . O lie Tyr Glu Lys Gln Ser Lys Glu Glu Thr Asp Ser Val Val Leu Ile
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                                                     :05
          . . Glu Asr Leu Lys Lys Ala Ala Pro
                                           420
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na apita rekuste: Iron
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          . 1 - . 1 - CRGANITTE Exemple
          DATE ROLLOW FEATURES
          . 64 KULLIS KAMEZKET: CDR
          185 (222) LOCATION: (61)..(1338)
           :86 <223> OTHER INFORMATION:
W--> 288 <400> 3
          Language transport of the search and the area of the transport of the data the data that the
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RAW SEQUENCE LISTING

RAW SEQUENCE LISTING

FATERT APPLICATION: US/09/688,286D

DATE: (0.418%/113 TIME: 07:51:52

Imput Set : A:\11373A.seqlist.txt

Output Set: N:\CRF4\07152003\1688286D.raw

301			35					40					45			Ile	
304	quT	Thr 50	Trp	Asn	Pro	Pro	Glu 55	Gī y	Ala	Ser	Ser	Asn 6:)	Cys	Ser	Leu	tgg Trp	252
307 308 304	Tyr 65	Ph≎	Ser	His	Phe	G1 ₃ 70	Asp	Lys	Gla	Asp	Lys 75	Lys	He	Ala	Pro	gaa Glu 80	300
311 311 312	Tur	Arg	Arg	S⊕r	11e 35		Val	Pro	L⊕ 1	Asn 90	3lu	Arg	Ile	Cys	Leu 95	Gla	34∺
3.1	V.#.1.	Gly	Ser	Gln 100	Cys	Ser	Thr	A. n	31a 105	Ser	Glu	Lys	Pro	Ser 110	Ile		336
30	Val.	Slu	Lys 115	Cys	lle	tca Ser	Pro	Pro 1. 0	31.1	Gly	Asp	P:o	31u 135	S∈r	Ala	Val	4.4.4
3.4	Tr.r	Gla 130	Leu	Gln	Cys	att Ile	Trp	H:s	Aan	Leu	Ser	Tyr 1:0	M∙∍t	Lys	Cys	Ser	492
52.1	Trp 145	Leu	Pro	131 y	A3.₫	aat Asn 150	Thr	30:2	São	Asp	Thr 155	A∺n	Туг	Thr	Leu	Tyr 160	540
3 / 1 3 / 1	Tyr	Trp	Ная	Arg	Ser 165	ctg Leu	Glu	្យន	ile	His 170	Gln	Cys	G u	Asr.	11e 175	Phe	588
300	Arg	Gla	GLy	Gln 180	T <u>v</u> r	ttt Phe	GLY	Cys	3er 185	Phe	Asp	Leu	Thr	Lys 1 00	Val	Lys	636
340 340	Asp	Ser	Ser 195	Phe	G! u	caa Gln	His	Ser 200	Val	Gln	Ile	Met	Val 205	Lys	Asp	Assn	684
- 4 4 - 4 5	Ala	G1.y 21.5	Lys	11.0	7.5	-24%er 1323	1001	Pho	řist.	1.100	77.1	Fit	i#*1	Thr	Con	Ary	· ·.
349 349	Val 225	Lys	i i c.	Asp	1:1-	Fro 230	His	110	Lys	A.21.	Lea 235	Cur	File	1113	F.St.	Aer. 1.40	***
3: 2 3: 5	Asp	Leu	Тут	Va.	GL n 245	tga Trp	Glu	Asu	Fro	Gln 250	Asn	Phe	Ijé,	Sor	Arg 155	tga Cys	ĄĮĸ
315 317	cta Leu	titt Ele	tat Tyr	gaa Uu 1811	gta Mai	gāa Çilu	ate Tal	aat A.H.	aac Acti jirk	11(1)(*) . (c.)	can Ali	1111	gad 31::	arta Tha	cat	arat. Asst.	\$4.77 g.

RAW SEQUENCE LISTING ERROR SUMMARY

PATENT AFFINCATION: US/09/688,286D

DATE: 07/15/2003 TIME: 07:51:53

Input Set : A:\11373A.seqlist.txt

Output Set: N:\CRF4\07152003\1688286D.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; Xaa Pos. 3 Seq#:10; Xaa Pos. 24 Seq#:11; Xaa Pos. 24

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/688,286D

DATE: 07/15/2003 TIME: 07:51:53

Input Set : A:\11373A.seqlist.txt

Output Set: N:\CRF4\07152003\1688286D.raw

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:39 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:37 L:288 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:286 L:589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0 L:613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:16 L:637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16



1600

RAW SEQUENCE LISTING

DATE: 07/10/2003

PATENT APPLICATION: US/09/688,286D

TIME: 11:05:02

Input Set : A:\11373A.seqlist.txt Output Set: N:\CRF4\07102003\1688286D.raw

3 <110> APPLICANT: Willson, Tracey

Micola , Nicos

Hilton, Douglas

Metcalf, Donald

Ename , Jian

 $3 \cdot (120) \cdot \text{TITLE OF INVENTION: A nevel haemopoietin receptor and genetic sequences encoding}$

same

11 -130: FILE REFERENCE: 13199-215

13 -1140: CURRENT APPLICATION NUMBER: US 09/688,286D

C--> 14 <141> CURRENT FILING DATE: 2000-10-13

16 H150H PETOF APPLICATION NUMBER: AU PN6135

17 - (151): PRIOR FILING DATE: 1495-10-23

19 H1500 PRIOR APPLICATION NUMBER: AU PN7276

20 (151) PRIOR FILING DATE: 1995-12-22

22 +150> PRIOR APPLICATION NUMBER: AU PP2208

23 - 151: PFIOR FILING DATE: 1996-09-09

25 -160: NUMBER OF SEQ ID NOS: 12

27 +170: SOFTWARE: PatentIn version 3.1

ERRORED SEQUENCES

641 <210> SEQ ID NO: 12

642 <2115 LENGTH: 5 645 +212 - TYLE: FFT

*44 *DISS ORGANISM: or known

4 *.. * FFATTER:

447 - 213 - OTHER INFORMATION: populate modify found in many memory of the hadmopoletin

receptor

6,1 E. family

650 <4005 SEQUENCE: 11.

652 Trp Ser Asp Trp Ser

E--> 662 11 -

1000

VERIFICATION SUMMARY

DATE: 07/10/2003 PATENT APPLICATION: US/09/688,286D TIME: 11:05:03

Input Set : A:\11373A.seqlist.txt

Output Set: N:\CRF4\07102003\1688286D.raw

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:39 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:37 L:288 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:286 L:589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0 L:613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:16 L:637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16 L:662 M:332 E: (32) Invalid/Missing Amine Acid Numbering, SEQ ID:12